SEQUENCE LISTING

<110> DAISO Co. Ltd.

<120> Hydroxy carboxylic ester hydrolase

<130> KP-10544

<160> 12

<170> PatentIn version 3.1

<210> 1
<211> 1990
<212> DNA
<213> Enterobacter sp.

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<222> (742)..(1827)
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cgcgctggtg aatcgttatg gcagtcttga tattctggta tctaatgccg ggatccagat   240

tgtcagtccc ctggatgaat acccgtttgc tgactggcgg aagatgatgg ctgttcatct   300

tgacggggca tttctgacca cccgggcagc actgaaacat atgtacaaaa acccgcaagg   360

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                      Met Arg Lys Thr Met Gln Arg Ser Leu Leu
                      1               5                   10

tca gcc ctg gtg ctg gtg gct tcc tgt tgt cat ggg gcc tgg gca gta      819
Ser Ala Leu Val Leu Val Ala Ser Cys Cys His Gly Ala Trp Ala Val
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tct gct cag gta acc cgc gat acc ctc ggc aca atg gag aaa cag tat      867
Ser Ala Gln Val Thr Arg Asp Thr Leu Gly Thr Met Glu Lys Gln Tyr
            30                  35                  40

caa cag atg tgg gag aaa gaa aat ggc ccg ctg acg ttg tcg cct ccg      915
Gln Gln Met Trp Glu Lys Glu Asn Gly Pro Leu Thr Leu Ser Pro Pro
        45                  50                  55

gcc ccc ctg gcg acg ctg tta tca tcg cta ccc aaa aac agc aat aac      963
Ala Pro Leu Ala Thr Leu Leu Ser Ser Leu Pro Lys Asn Ser Asn Asn
    60                  65                  70

ccc gag tat aat acg ctc gac agc cgt gat gcg ttg act gcg ctg acc     1011
Pro Glu Tyr Asn Thr Leu Asp Ser Arg Asp Ala Leu Thr Ala Leu Thr
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caa aag tac gtg acg gat aaa caa tcc ata gcc cga att atc aat gtg     1059
Gln Lys Tyr Val Thr Asp Lys Gln Ser Ile Ala Arg Ile Ile Asn Val
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gat gtc gcg gtg ccg gga cga aaa att ccg gta cgg atc tac aac ccg     1107
Asp Val Ala Val Pro Gly Arg Lys Ile Pro Val Arg Ile Tyr Asn Pro
            110                 115                 120

cat ccg gat ata gca acc ggg gtg att ttc ttc att cat ggt ggg ggg     1155
His Pro Asp Ile Ala Thr Gly Val Ile Phe Phe Ile His Gly Gly Gly
        125                 130                 135

cat ctg agt ggt tcg gtg gat gtt tac gac ccg ata gcc cgt cat ctg     1203
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Pro Glu Ser Pro Tyr Pro Glu Gly Leu His Asp Ala Arg Asp Val Leu
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atg cag gtt tac gct gta ctg gat cag aac cat gtt ccc tgg aaa ccg      1347
Met Gln Val Tyr Ala Val Leu Asp Gln Asn His Val Pro Trp Lys Pro
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caa ctg act ctg gcc gga gac agc gga ggt ggg gca ttc agc gcc acg      1395
Gln Leu Thr Leu Ala Gly Asp Ser Gly Gly Gly Ala Phe Ser Ala Thr
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ctt gcc ggc gat tta cag act gaa cac ccg ggc ttt atc tcc cgc ctg      1443
Leu Ala Gly Asp Leu Gln Thr Glu His Pro Gly Phe Ile Ser Arg Leu
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Glu Leu Ile Tyr Pro Ser Leu Asp Tyr Thr Leu Ser Trp Pro Ser Ala
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Asp Glu Asn Gly Gln Gly Lys Leu Leu Asp Lys Ser Lys Val Ala Trp
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ccg ttg tac aga tca gtc acg cgg gcg ttt ccg ccc aca ctt att ttt      1635
Pro Leu Tyr Arg Ser Val Thr Arg Ala Phe Pro Pro Thr Leu Ile Phe
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agt ggc ggt ctg gat cca tta cgt gat gag gat ttt gct ttt gtt gcc      1683
Ser Gly Gly Leu Asp Pro Leu Arg Asp Glu Asp Phe Ala Phe Val Ala
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Arg Leu Lys Ser Ala Gly Val Pro Val Arg His Ile His Phe Pro Gly
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gca cag gtt tat cag gct acc gct gat ttc att gcc aca cca gcc cat 1827
Ala Gln Val Tyr Gln Ala Thr Ala Asp Phe Ile Ala Thr Pro Ala His
350 355 360

taggtctgag gggcagtttc cgcaactgcc cctgtgattt cgttaacgaa ttacctgttc 1887

gtggcgtgat ttgttttcat tgggacagaa acgcagcctt ttaagcctgc tgtctggtcg 1947

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Glu Asn Gly Pro Leu Thr Leu Ser Pro Pro Ala Pro Leu Ala Thr Leu
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Leu Ser Ser Leu Pro Lys Asn Ser Asn Asn Pro Glu Tyr Asn Thr Leu
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Asp Ser Arg Asp Ala Leu Thr Ala Leu Thr Gln Lys Tyr Val Thr Asp
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Lys Gln Ser Ile Ala Arg Ile Ile Asn Val Asp Val Ala Val Pro Gly
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Arg Lys Ile Pro Val Arg Ile Tyr Asn Pro His Pro Asp Ile Ala Thr
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Gly Val Ile Phe Phe Ile His Gly Gly Gly His Leu Ser Gly Ser Val
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Asp Val Tyr Asp Pro Ile Ala Arg His Leu Ala Ala Ala Thr Gly Asn
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Thr Val Val Ala Val Asp Tyr Arg Arg Ala Pro Glu Ser Pro Tyr Pro
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Glu Gly Leu His Asp Ala Arg Asp Val Leu Met Gln Val Tyr Ala Val
            180   185   190

Leu Asp Gln Asn His Val Pro Trp Lys Pro Gln Leu Thr Leu Ala Gly
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Asp Ser Gly Gly Gly Ala Phe Ser Ala Thr Leu Ala Gly Asp Leu Gln
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Thr Glu His Pro Gly Phe Ile Ser Arg Leu Glu Leu Ile Tyr Pro Ser
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Leu Asp Tyr Thr Leu Ser Trp Pro Ser Ala Asp Glu Asn Gly Gln Gly
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Lys Leu Leu Asp Lys Ser Lys Val Ala Trp Tyr Phe Ser Gln Tyr Phe
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Gln His Gly Glu Asp Arg Ala Ser Leu Ser Pro Leu Tyr Arg Ser Val
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Thr Arg Ala Phe Pro Pro Thr Leu Ile Phe Ser Gly Gly Leu Asp Pro
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Leu Arg Asp Glu Asp Phe Ala Phe Val Ala Arg Leu Lys Ser Ala Gly
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Val Pro Val Arg His Ile His Phe Pro Gly Met Val His Ala Phe Leu
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<222> (1)..(25)
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